

# PATENT COOPERATION TREATY

# PCT

SEP 23 2004

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference <b>P 7952 PCT/EU</b>	<b>FOR FURTHER ACTION</b> See Notification of Transmittal of International Preliminary Examination Report (Form PCT/PEA416)	
International application No. <b>PCT/EP03/03132</b>	International filing date ( <i>day/month/year</i> ) <b>26.03.2003</b>	Priority date ( <i>day/month/year</i> ) <b>26.03.2002</b>
International Patent Classification (IPC) or both national classification and IPC <b>E05D13/00</b>		
Applicant <b>BORTOLUZZI MOBILI S.R.L.</b>		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.

2. This REPORT consists of a total of 5 sheets, including this cover sheet.

☒ This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of 3 sheets.

3. This report contains indications relating to the following items:

- I    ☒ Basis of the opinion
- II   ☐ Priority
- III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV   ☐ Lack of unity of invention
- V    ☒ Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI   ☐ Certain documents cited
- VII ☐ Certain defects in the international application
- VIII ☐ Certain observations on the international application

Date of submission of the demand  <b>25.09.2003</b>	Date of completion of this report  <b>15.12.2003</b>
Name and mailing address of the international preliminary examining authority:  <div style="display: flex; align-items: center;"> <div>             European Patent Office              D-80298 Munich              Tel. +49 89 2399 - 0 Tx: 523656 epmu d              Fax: +49 89 2399 - 4465           </div> </div>	Authorized Officer  <b>Di Renzo, R</b>  Telephone No. +49 89 2399-7927



**INTERNATIONAL PRELIMINARY  
EXAMINATION REPORT**

International application No. **PCT/EP03/03132**

**I. Basis of the report**

1. With regard to the **elements** of the international application (*Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)*):

**Description, Pages**

1-17 as originally filed

**Claims, Numbers**

1-9 received on 25.09.2003 with letter of 25.09.2003

**Drawings, Sheets**

1/6-6/6 as originally filed

2. With regard to the **language**, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language: , which is:

- ☐ the language of a translation furnished for the purposes of the international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of a translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. The amendments have resulted in the cancellation of:

- ☐ the description, pages:
- ☐ the claims, Nos.:
- ☐ the drawings, sheets:

**INTERNATIONAL PRELIMINARY  
EXAMINATION REPORT**

International application No. **PCT/EP03/03132**

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5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).

*(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)*

6. Additional observations, if necessary:

**V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

1. Statement

Novelty (N)	Yes: Claims	1-9
	No: Claims	
Inventive step (IS)	Yes: Claims	1-9
	No: Claims	
Industrial applicability (IA)	Yes: Claims	1-9
	No: Claims	

2. Citations and explanations

**see separate sheet**

**INTERNATIONAL PRELIMINARY  
EXAMINATION REPORT - SEPARATE SHEET**

International application No. PCT/EP03/03132

Document US-A-1922370, considered to represent the closest prior art, discloses a balancing system with all the features of the preamble of claim 1. In this device the torsion spring can be adjustably tensioned for properly counterbalancing the door by changing the angular position of a finger with respect to a plug.

The objective problem faced by the present invention can be regarded as how to provide a balancing device with a compact construction and which permits an easy and reliable adjustment of the torsion load exerted by the spring.

The balancing device disclosed in the present invention foresees the use of two opposing friction discs having an inclined head surface whereby the first friction disc is connected to the torsion spring. A rotation of the second friction disc exerts an axial pressure on the first friction disc which blocks it against the support thereby permitting the adjustment of the torsion load.

Since none of the available prior art documents discloses or suggests the construction of a balancing device having all of the features of independent claim 1, this claim is considered to meet the requirements of novelty, inventive step according to Articles 33(2) and 33(3) PCT.

The device according to independent claim 1 is able to work and can be manufactured, thus it is looked upon as being industrially applicable (Article 33(4) PCT).

Dependent claims 2-9 define further advantageous variations of the device according to independent claim 1 and thus equally meet the requirements of novelty, inventive step and industrial application according to Articles 33(2) to 33(4) PCT.

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The following comments should be taken in consideration:

The description is not in conformity with the claims as required by Rule 5.1(a)(iii) PCT.

The vague and imprecise statement in the description on page 17, lines 1-3 implies that the subject-matter for which protection is sought may be different to that defined by the claims, thereby resulting in lack of clarity (Article 6 PCT) when used to interpret them (see also the PCT Guidelines, III-4.3a).

**INTERNATIONAL PRELIMINARY  
EXAMINATION REPORT - SEPARATE SHEET**

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International application No. PCT/EP03/03132

The statement in the description, page 2, line 11 "...incorporated herein by reference..." introduces a lack of clarity (Art. 6 PCT).

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Dachau, September 25, 2003

PCT/EP 03/03132  
 P 7952 PCT/EU

New Claims

1. A balancing device for a suspended element (6), particularly for sash doors and windows to be vertically translated, comprising a shaft (12) rotatably supported on a support (15, 1, 2, 5), a pair of opposing pulleys (10) attached to the shaft (12) so as to be rotatable therewith, a pair of supporting ropes (8), one end of each of which being attached to the suspended element (6), and the respective other ends being attached to the pulleys (10), wherein each of the pulleys (10) comprises a spiral groove (10C) onto which the respective ropes (8) can be rolled for translating the suspended element (6), wherein said shaft (12) is linked to an end (22A) of elastic means (22) whose opposite end (22B) is attached to a friction disc (30), characterized in that said friction disc (30) is rotatably supported on said support (15, 1, 2, 5), can be blocked against the support (15, 1, 2, 5), so as to allow the adjustment of the torsion load caused by the simultaneous rotation of the pulleys (10) and the shaft (12), and is provided with a head surface (32) which is inclined with respect to the axis of said shaft (12) and is able to be rotated against a corresponding head surface (42) of an opposing friction disc (40) so as to exert an axial pressure on the friction disc (30), for blocking the same against the support (15, 1, 2, 5).
2. The device of claim 1, characterized in that the elastic means (22) are spring means (22) that are arranged coaxially with the shaft (12).

3. The device of claim 2, characterized in that the opposite end (22B) of the spring means (22) is free and independent with respect to the shaft (12).
4. The device of claim 1, characterized in that at least one friction ring (53, 54) is provided so as to increase friction between the friction discs (30, 40) and the support (15, 1, 2, 5).
5. The device of claim 4, characterized in that the opposing friction disc (40) is rotatably supported on a bush (50), said bush (50) being supported on the shaft (12) so as to be axially displaceable with respect to the support (15, 1, 2, 5), and comprising a shoulder (52), one (54) of the friction rings (53, 54) being arranged between the shoulder (52) and the opposing friction disc (40).
6. The device of claim 5, characterized in that another friction ring (53) is arranged between the shoulder (52) and the support (15, 1, 2, 5).
7. The device of any of claims 1 to 6, characterized in that the blocking of the friction disc (30) against the support (15, 1, 2, 5) leads to blocking of the rotation also of the end (22B) of the spring means (22), whose opposite end (22A) is engaged in the rotation of the shaft (12) put in rotation by the pulleys (10), every time the suspended element (6) is vertically moved.

8. The device of any of claims 1 to 7, characterized in that the blocking or loosening, in particular of the friction disc (30), by means of the rotation of the friction disc (40) allows the adjustment of the torsion load required to be provided by the spring means (22) to balance the weight of the suspended element (6), in any phase of the positioning of the suspended element (6) along its vertical translation.
9. The device of any of claims 1 to 8, characterized in that the spring means (22) is twined around a drum (20) so as to provide present a larger wider development surface for the spring means (22).



# PATENT COOPERATION TREATY

# PCT

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REC'D 30 MAR 2004

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

WIPO PCT

(PCT Article 36 and Rule 70)

(Rationalised Report according to the Notice of the President of the EPO published in the OJ11/2001)

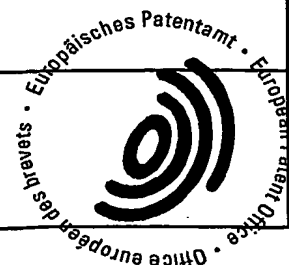
Applicant's or agent's file reference <b>G 1279 PCT</b>	<div style="display: flex; justify-content: space-between;"> <div>FOR FURTHER ACTION</div> <div>See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)</div> </div>	
International application No. <b>PCT/EP03/02990</b>	International filing date (day/month/year) <b>21/03/2003</b>	Priority date (day/month/year) <b>22/03/2002</b>
International Patent Classification (IPC) or national classification and IPC <b>C07K16/08</b>		
Applicant <b>AMYNON BIOTECH GMBH et Al.</b>		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.
2. This **REPORT** consists of a total of 2 sheets, including this cover sheet.  
  
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  - VIII ☐ Certain observations on the international application

Date of submission of the demand <b>08/10/2003</b>	Date of completion of this report <b>24/03/2004</b>
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**INTERNATIONAL PRELIMINARY  
EXAMINATION REPORT**

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International application No.

PCT/EP03/02990

**I. Basis of the report**

The basis of this international preliminary examination is the application as originally filed.

**V. Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability**

In light of the documents cited in the international search report, it is considered that the invention as defined in at least some of the claims does not appear to meet the criteria mentioned in Article 33(1) PCT, i.e. does not appear to be novel and/or to involve an inventive step (see international search report, in particular the documents cited X and/or Y and corresponding claim references).